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DATE MAILED: 10/06/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,958	05/31/2005	Soo-Yeon Shin	0630-2333PUS1	9931
2292	7590 10/06/2006		EXAMINER	
	WART KOLASCH &	WALBERG, TERESA J		
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			3744	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summer	10/536,958	SHIN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Teresa J. Walberg	3753			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	e correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS fr c, cause the application to become ABANDO	ON. It imely filed om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 18 Ju	uly 2006.				
2a) ☐ This action is FINAL . 2b) ☑ This	_				
3) Since this application is in condition for allowa	nce except for formal matters, p	prosecution as to the merits is			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 4-7 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>4-6</u> is/are allowed.					
6)⊠ Claim(s) <u>7</u> is/are rejected.		·			
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers		·			
9) The specification is objected to by the Examine	er.				
10)⊠ The drawing(s) filed on 31 May 2005 is/are: a)	⊠ accepted or b)⊡ objected t	o by the Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct					
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Offi	ce Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119	(a)-(d) or (f).			
1. Certified copies of the priority document	s have been received.				
2. Certified copies of the priority document	s have been received in Applic	ation No			
3. Copies of the certified copies of the prior	•	ived in this National Stage			
application from the International Bureau	, , ,				
* See the attached detailed Office action for a list	of the certified copies not recei	ived.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summ	ary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail 5) Notice of Informa	Date Patent Application			
Paper No(s)/Mail Date 7/18/66.8/9/06.	••				

DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 7 is rejected under 35 U.S.C. 102(b) as being anticipated by Lucke (1,833,166).

Lucke discloses a heat exchanger as claimed including a plurality of heat exchange plates (12) which are laminated at a predetermined interval (Fig. 1), first heat exchange portions positioned among the heat exchange plates and through which a first fluid stream passes, second heat exchange portions positioned along the heat exchange plates in turn with the first heat exchange portion and through which a second fluid stream passes, the first and second heat exchange portions being composed of a plurality of heat exchange members (12) having a predetermined length, and the heat exchange members being aligned at a predetermined interval (Fig. 1), first partitions (13) for closing the second heat exchange portions are attached on the both side surfaces through which the first fluid stream passes and second partitions (13) for closing the first heat exchange portion are attached on the other both side surfaces of the heat exchanger through which the second fluid stream passes. Note that the types of fluid used in the apparatus are considered to be a matter of intended use.

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3. Claims 4-6 are allowed.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Simpelaar, Anderson, Kinsell et al, Abramzon et al, and Carpentier are cited to show partitions for closing the side surfaces of heat exchangers.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teresa J. Walberg whose telephone number is 571-272-4790. The examiner can normally be reached on M-F 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Keasel can be reached on 571-272-4929. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Joresa J. Wallorg
Teresa J. Walberg
Primary Examiner
Art Unit 3753

tjw